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Satellite and Radiocommunications Division  
Satellite Policy Branch

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To: William S. Caton, Acting Secretary

Date: November 8, 1995

From: Jennifer Gilsenan *JG*

Re: CC Docket No. 92-297

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On November 7, 1995, the International Bureau's Satellite and Radiocommunication Division convened a meeting with the participants listed in Attachment A to this memorandum.

Participants discussed submission of advanced publication notifications to the International Telecommunications Union for Geostationary Orbit Fixed Satellite Service Systems in the 20/30 GHz bands. The document in Attachment B, formed a basis for the discussions.

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List A B C D E

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20/30 GHz Band Meeting  
November 8, 1995  
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Tom Gump	DLA for Lockheed Martin	857-2815	857-2900
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YOUNG LEE	ORION	301 258 3310	301 258 3319
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Frank Young	Young & Rubicam for Morning Star	202/663-9080	202/331-8001
Albert Skuldiner	Vinson & Elkins/ Netsat 28	202/639-6722	202/639-6604
JEFF KRAVSS	Consultant to Vision Star	301 309 3703	301 309 9323
CHUCK MILKIS	Michael R. Gardner for Vision Star	202/785-2828	202/785-1504
Philip Rubin	PANAM SAT	202-2969380	202-2969383
Jan Goldberg	Panamsat/cow	202-429-4900	202-429-4912
Richard Barnett	For Lockheed Lockheed/Martin		
HARRY NG	FCC	739-0744	887-6126

Attachment B

# U R G E N T

## TELEFAX MESSAGE

To: Harry Ng, FCC

From: Richard Barnett, Telecomm Strategies  
Tel: (301)-229-0204; Fax: (301)-320-2421

Date: November 4, 1995

Number of Pages: 7 (including this page)

Subject: Summary of Orbit Selection Rationale  
and Coordinations Issues.

I have prepared the attached chart which summarizes the discussion at our November 2 meeting concerning the applicants' requests for orbit locations, and additional information that I have gleaned from my research of the ITU's Space Network List (including the new list of systems not yet published by the ITU). I hope this will be useful to you in your deliberations concerning orbit locations.

In summary I do not think we will have many extra orbit locations in the international arc after taking account of coordination conflicts where other nations have priority. If there are any extra international locations it is probably in the Pacific region such as 147°E, 149°E and 152°E. I would strongly urge you not to delete any of the proposed locations in the Atlantic and European orbit arcs (34.5°W to 56°E), as we have a lot of required locations in this range and some major coordination conflicts with locations originally proposed by some applicants.

There appears to be scope for deletion of orbit locations in the domestic arc as we are proposing many more than required by the applicants, and there are not (at present) many coordination conflicts in this range.

Best regards,

*Richard Barnett*

Orbit Longitude (°E)	FCC / ITU Designation	Original Applicant	Rationale for selection and scope for coordination
<b>Domestic Orbit Arc</b>			
149°W	USASAT-31A		Most Westerly orbit location (odd-numbered) requested by any applicant
148°W		Morning Star	
147°W	USASAT-31B		Odd-numbered orbit location across domestic arc.
145°W			Conflict with USCSID-W2 at 144°W
143°W			Conflict with USCSID-W2 at 144°W
141°W			Conflict with USCSID-W1 at 141°W
140°W		KaStar	Not an even number
139°W	USASAT-31C		Odd-numbered orbit location across domestic arc.
137°W	USASAT-31D		Odd-numbered orbit location across domestic arc.
135°W	USASAT-31E		Odd-numbered orbit location across domestic arc.
133°W	USASAT-31F		Odd-numbered orbit location across domestic arc.
131°W	USASAT-31G		Odd-numbered orbit location across domestic arc.
129°W	USASAT-31H		Odd-numbered orbit location across domestic arc.
127°W	USASAT-31I	Orion	Odd-numbered orbit location across domestic arc.
125°W	USASAT-31J		Odd-numbered orbit location across domestic arc.
123°W	USASAT-31K		Odd-numbered orbit location across domestic arc.
121°W	USASAT-31L		Odd-numbered orbit location across domestic arc.
119°W	USASAT-31M	KaStar & EchoStar	Odd-numbered orbit location across domestic arc. Conflict with CANSAT KA-3 at 118.7°W
117°W	USASAT-31N		Odd-numbered orbit location across domestic arc. Conflict with CANSAT KA-3 at 118.7°W
115°W	USASAT-31O		Odd-numbered orbit location across domestic arc.
113°W	USASAT-31P		Odd-numbered orbit location across domestic arc. Conflict with CANSAT KA-2 at 111.1°W

111°W	USASAT-31Q		CANSAT KA-2 at 111.1°W
110°W		Loral	Not an even number
109°W	USASAT-31R		Odd-numbered orbit location across domestic arc.
107°W	USASAT-31S		Odd-numbered orbit location across domestic arc. Conflict with CANSAT KA-1 at 107.3°W
106°W		GE Americom	Not an even number
105°W	USASAT-31T	Motorola & VisionStar	Odd-numbered orbit location across domestic arc.
103°W	USASAT-31U	Motorola & AT&T & NetSat 28	Odd-numbered orbit location across domestic arc.
101°W	USASAT-31V	Hughes	Odd-numbered orbit location across domestic arc.
99°W	USASAT-31W	Hughes	Odd-numbered orbit location across domestic arc.
97°W	USASAT-31X		Odd-numbered orbit location across domestic arc.
96°W		Lockheed Martin	Not an even number
95°W	USASAT-31Y	KaStar	Odd-numbered orbit location across domestic arc.
93°W	USASAT-31Z	AT&T & Orion	Odd-numbered orbit location across domestic arc.
91°W	USASAT-32A		Odd-numbered orbit location across domestic arc.
89°W	USASAT-32B		Odd-numbered orbit location across domestic arc.
88°W		Motorola	Not an even number
87°W	USASAT-32C		Odd-numbered orbit location across domestic arc.
86°W		Motorola	Not an even number
85°W	USASAT-32D	EchoStar	Odd-numbered orbit location across domestic arc.
83°W	USASAT-32E	Orion	Odd-numbered orbit location across domestic arc.
82°W		GE Americom	Not an even number
81°W	USASAT-32F		Odd-numbered orbit location across domestic arc.
79°W	USASAT-32G	PanAmSat	Odd-numbered orbit location across domestic arc.

77°W	USASAT-32H		Odd-numbered orbit location across domestic arc.
75°W	USASAT-32I		Odd-numbered orbit location across domestic arc.
73°W	USASAT-32J		Odd-numbered orbit location across domestic arc.
71°W	USASAT-32K		Odd-numbered orbit location across domestic arc.
69.5°W		Morning Star	
69°W	USASAT-32L		Odd-numbered orbit location across domestic arc.
67°W	USASAT-32M	Hughes	Odd-numbered orbit location across domestic arc.
<b>International Orbit Arc:</b>			
58°W	USASAT-32N	PanAmSat	No conflicts at present.
55°W	USASAT-32O	AT&T	No conflicts at present.
49°W	USASAT-32P	Hughes	No conflicts at present.
47°W	USASAT-32Q	Orion	Conflicts with ATDRS at 46°W
34.5°W	USASAT-32R		No conflicts at present - suitable alternative to 29°W or 46°W.
29°W		Lockheed Martin	Conflict with USCSID-E4 at 30°W
21.5°W	USASAT-32S		No conflicts at present - suitable alternative to 29°W.
17°W	USASAT-32T		No conflicts at present - suitable alternative to 29°W.
7.5°W	USASAT-32U		No conflicts at present - suitable alternative for some systems that have filed in the range 16°E to 42°E.
5.5°W	USASAT-32V		No conflicts at present - suitable alternative for some D81.
1°W		AT&T	Conflict with USCSID-A1 at 0°E
2°E	USASAT-32W		Conflict only with Russian TOR-15 at 1°E which may expire in 1996.
16°E	USASAT-32X	GE Americom	Major conflict with primary Eutelsat filing at 16°E. No chance of coordination.
25°E	USASAT-32Y	Hughes	Already protected by USASAT-29D filing. Luxembourg subsequently filed at 24.2°E and Eutelsat at 25.5°E.

28°E	USASAT-32Z		Selected by Loral / Morning Star to avoid clash at 29.5°E and 30°E. However, no chance of coordination due to Luxembourg at 28.2°E and German DFS at 28.5°E.
29.5°E		Loral	
30°E	USASAT-33A	Morning Star	Very small chance of coordination due to Italian filing at 30°E.
36°E	USASAT-33P	Hughes	No chance of coordination due to Eutelsat filing at 36°E.
37°E		Lockheed Martin	
38°E	USASAT-33C	GE Americom	Very small chance of coordination due to UK filing at 38°E.
40°E	USASAT-33D		
41°E		Hughes	
42°E	USASAT-33E	AT&T	No chance of coordination due to Luxembourg filing at 41.2°E.
46°E	USASAT-33F		
48°E	USASAT-33G	Hughes	No chance of coordination due to Eutelsat filing at 48°E.
51°E	USASAT-33H		No conflict at present. Suitable alternative for systems that have filed in the range 16°E to 42°E
54°E	USASAT-33I	Hughes	Conflict only with Russian TOR-23 at 53°E which may expire in 1996.
56°E	USASAT-33J		No conflict at present. Suitable alternative D95 16°E to 42°E
72.7°E	USASAT-33K		No conflict at present. May be suitable alternative to 78°E.
78°E	USASAT-33L	Orion	No conflict at present (but beware of Indian filings in this orbit range)
92°E		AT&T	Conflict with USCSID-A5 at 92°E
98°E	USASAT-33M		No conflict at present. May be suitable alternative to systems filed in the range 78°E to 116°E.
101°E	USASAT-33N	Hughes	Conflict with UK filing at 101.5°E.
103°E	USASAT-33O		Conflict with Korean filing at 103°E. Proposed by Morning Star / GE Americom as alternative to avoid clash at 107.5° and 108°E.
105.5°E	USASAT-33E	Loral	Conflict with UK filing at 104.8°E.
107.4°E		Morning Star	
107.5°E	USASAT-33Q		No conflict at present.

108°E		GE Americom	
110°E		Hughes	Conflict with USCSID-A6 at 110°E.
112°E	USASAT-33R		Conflict with Korean filing at 113°E. Proposed by Morning Star / GE Americom as alternative to avoid clash at 107.5° and 108°E.
114.5°E	USASAT-33S		Coordination difficulty (1.5° spacing) with Korea at 113°E and 116°. Selected by Lockheed Martin as alternative to avoid clash at 115°E and 116°E. Solution is to persuade Korea to drop one of its two filings and adjust US filings accordingly.
115°E		Lockheed Martin	
116°E		AT&T	
116.5°E	USASAT-33T		Coordination problem (0.5° spacing) with Korea at 116°. Selected by AT&T as alternative to avoid clash at 115°E and 116°E. Solution is to persuade Korea to drop one of its two filings and adjust US filings accordingly.
124.5°E	USASAT-33U		Conflict with UK filing at 124.7°E. Selected by Hughes as alternative to avoid clash at 125°E and 126°E.
125°E		Hughes	
126°E		Orion	
126.5°E	USASAT-33V		Coordination difficulty (1.8° spacing) with UK filing at 124.7°E. Selected by Orion as alternative to avoid clash at 125°E and 126°E.
130°E	USASAT-33W		No conflict at present. May be suitable alternative for systems that have filed in the range 105.5°E to 126°E.
147°E	USASAT-33X		No conflict at present. May be suitable alternative for systems that have filed in the range 105.5°E to 126°E.
149°E	USASAT-33Y	Hughes	No conflict at present.
152°E	USASAT-33Z		No conflict at present. May be suitable alternative for systems that have filed in the range 164°E to 173°E
160°E	USASAT-34A		No conflict at present. May be suitable alternative for systems that have filed in the range 164°E to 173°E
164°E	USASAT-34R	Hughes	Conflicts with Australian and Korean filings at 164°E.



168°E	USASAT-34C	Lockheed Martin	Coordination problem (1.2° spacing) with UK filing at 169.2°E.
173°E	USASAT-34D	Hughes	No conflict at present.